

CLAIMS

What is claimed is:

1 1. A universal trailer-hitch mirror system comprising:

2 an attachment configuration having a system fastener for fastening the
3 attachment configuration to a support object that is accessible for support of a mirror
4 holder on which a system mirror is positioned for mirror-viewing of tow trailer-hitch
5 components of a tow vehicle and for mirror-viewing of trailerable trailer-hitch
6 components of a trailerable vehicle from a vehicle mirror;

7 the tow vehicle being within hitching-steerable proximity to the
8 trailerable vehicle;

9 the mirror holder being attached orientationally to the attachment
10 configuration with an orientation controller;

11 the system mirror being attached orientationally to the mirror holder
12 selectively with a system-mirror joint;

13 the attachment configuration being articulated to be positioned in
14 desired proximity to rear components of the tow vehicle, to front components of the
15 trailerable vehicle and to objects proximate thereto selectively;

16 the system fastener being articulated predeterminedly to attach the
17 attachment configuration to the support object selectively;

18 the orientation controller being articulated to orient the mirror holder
19 controllably in a desired orientation of attachment to the attachment configuration;

20 and

21 the system-mirror joint being articulated to orient the system mirror in
22 a mirrored line of sight from the vehicle mirror to the tow trailer-hitch components
23 and to the trailerable trailer-hitch components selectively.

1 2. The universal trailer-hitch mirror system of claim 1 wherein:

2 the support object is a back window of the tow vehicle;

3 the attachment configuration includes a window bracket having two
4 bracket attachment rods with controller ends extended in a direction that is
5 outwardly from a rear surface of the tow vehicle;

6 the orientation controller includes two pivot joints with which the mirror
7 holder is attached orientationally and fixedly to the two bracket attachment rods;

8 the system fastener includes a suction cup on a window-bracket member
9 intermediate the two bracket attachment rods;

10 the suction cup is articulated and situated to suction-fasten the window
11 bracket to the back window of the tow-vehicle;

12 bracket cushioning is situated intermediate the window bracket and the
13 rear surface of the tow vehicle;

14 the mirror holder includes a mirror bracket having two mirror
15 attachment rods that are attached to the two bracket attachment rods with the two
16 pivot joints;

17 the system-mirror joint is on a window-bracket member intermediate
18 the two mirror attachment rods; and

19 the vehicle mirror is a rearview mirror having line-of-sight vision
20 through the tow vehicle to the system mirror.

1 **3.** The universal trailer-hitch mirror system of claim 1 wherein:

2 the support object is a pickup-truck tailgate on the tow vehicle;

3 the attachment configuration includes a tailgate bracket having two
4 tailgate-bracket appendages with bottom extensions extended in a direction that is
5 outwardly from a rear surface of the pickup-truck tailgate;

6 the orientation controller includes two pivot joints with which the mirror
7 holder is attached orientationally and fixedly to the two tailgate-bracket appendages;

8 the system fastener includes a tailgate hook on a tailgate-bracket
9 member intermediate the two tailgate-bracket appendages;

10 the tailgate hook is articulated and situated to hook-fasten the tailgate
11 bracket to the pickup-truck tailgate of the tow-vehicle;

12 the mirror holder includes a mirror bracket having two mirror
13 attachment rods that are attached to the two tailgate-bracket appendages with the
14 two pivot joints;

15 the system-mirror joint is on a tailgate-bracket member intermediate the
16 two mirror attachment rods; and

17 the vehicle mirror is a rearview mirror having line-of sight vision
18 through the tow vehicle to the system mirror.

1 **4.** The universal trailer-hitch mirror system of claim 1 wherein:

2 the support object is a back of the tow vehicle;

3 the attachment configuration includes a back bracket having one or
4 more back-bracket appendages;

5 the orientation controller includes one or more pivot joints with which
6 the mirror holder is attached orientationally and fixedly to the one or more back-
7 bracket appendages;

8 the system fastener includes a suction cup on the back bracket;

9 the suction cup is articulated and situated to suction-fasten the back
10 bracket to the back of the tow-vehicle;

11 the mirror holder includes a mirror bracket having one or more mirror
12 attachment rods that are attached to the back bracket with the one or more pivot
13 joints;

14 the system-mirror joint is on the back bracket; and

15 the vehicle mirror is a side-view mirror from which the system mirror
16 is visible.

1 **5.** The universal trailer-hitch mirror system of claim 1 wherein:

2 the support object is a side item proximate a back side of the tow
3 vehicle;

4 the attachment configuration includes a side-item bracket having one or
5 more side-item-bracket appendages;

6 the orientation controller includes one or more pivot joints with which
7 the mirror holder is attached orientationally and fixedly to the one or more side-item-
8 bracket appendages;

9 the mirror holder includes a mirror bracket having one or more mirror
10 attachment rods that are attached to the side-item bracket with the one or more pivot
11 joints; and
12 the vehicle mirror is a side-view mirror from which the system mirror
13 is visible.

1 **6.** The universal trailer-hitch mirror system of claim 1 wherein:
2 the support object includes a ground surface proximate a back side of
3 the tow vehicle; and
4 the vehicle mirror is a side-view mirror from which the system mirror
5 is visible.

1 **7.** The universal trailer-hitch mirror system of claim 6 wherein:
2 the system fastener includes the base on the attachment configuration.

1 **8.** The universal trailer-hitch mirror system of claim 7 wherein:
2 the base includes the suction cup.

1 **9.** The universal trailer-hitch mirror system of claim 1 wherein:
2 the attachment configuration includes an attachment rod along which
3 one or more predetermined system fasteners are fixedly positioned selectively; and
4 the mirror holder includes a holder rod.

1 **10.** The universal trailer-hitch mirror system of claim 9 wherein:
2 the attachment rod has a length that is fixedly variable telescopically.

3 **11.** The universal trailer-hitch mirror system of claim **9** wherein:
4 the system fasteners include a rod base on a base end of the attachment
5 rod.

6 **12.** The universal trailer-hitch mirror system of claim **11** wherein:
7 the rod base is articulated to rest on the ground surface.

1 **13.** The universal trailer-hitch mirror system of claim **11** wherein:
2 the rod base is articulated to rest on the horizontal framework proximate
3 the front end of the trailerable vehicle.

1 **14.** The universal trailer-hitch mirror system of claim **13** wherein:
2 the rod base includes a predetermined base fastener.

1 **15.** The universal trailer-hitch mirror system of claim **9** wherein:
2 the predetermined system fasteners include a tailgate hook.